

Patent Abstracts of Japan

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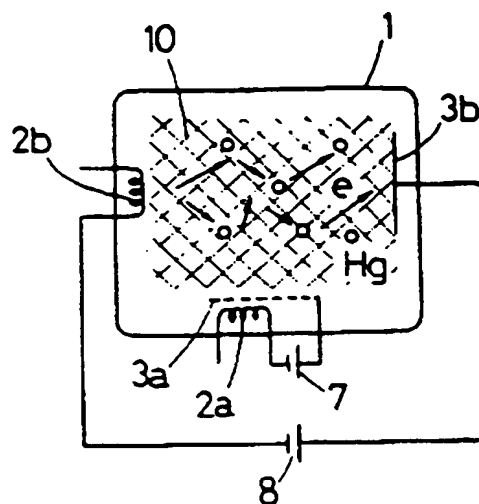
APPLICATION DATE : 10-07-85
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APPLICANT : MATSUSHITA ELECTRIC WORKS LTD;

INVENTOR : UETSUKI TADAO;

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TITLE : LUMINOUS RADIATION ELECTRON
TUBE



ABSTRACT : PURPOSE: To produce emission over the entire body of a luminous radiation electron tube by applying a voltage sufficient for ionizing luminous radiation gas across a cathode and an anode which are located at a distance shorter than the mean free path of electrons and applying a voltage optimum for exciting luminous radiation gas across another cathode and another anode which are located at a distance sufficiently longer than the mean free path.

CONSTITUTION: Electrons produced from a first cathode 2a by a d.c. power supply 7 strike against mercury atoms after passing through an anode 3a to ionize mercury atoms. This ionization neutralizes the space which results in acceleration of electrons travelling from a second cathode 2b and a second anode 3b by a power supply 8. Electrons discharged from the second cathode 2b strike against mercury atoms and drift toward the second anode 3b while exciting the mercury atoms. Since these electrons do not induce ionization, no current limiters are necessary for igniting the lamp.

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